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## Workshop Report

(Public)

# KETmaritime | Enriching maritime R&D through Key Enabling Technologies

Thursday 26th September 2019, 9am – 5:30pm

MaREI Centre for Marine and Renewable Energy, ERI Beaufort Building, UCC

Ringaskiddy, Cork, Ireland

**Ref.:** ketmaritime\_CorkWkshp\_v1.0

**Version:** 1.0

**Date:** 02/01/2020

# Thank you!

The KETmaritime team would like to take this opportunity to thank attendees and speakers for their contributions. Your efforts have helped us immensely, in our initial push to determine how the Commission and national entities can act to help the maritime sector seize opportunities from Key Enabling Technologies. We finished the Cork meeting encouraged at the enthusiasm with which attendees engaged in the consultations, your concise and clear positive feedback and constructive criticism, observations, encouragement, and considered guidance and cautions.

We look forward to presenting the draft roadmap to you. In the meantime, please do not hesitate to contact our team should you have any queries regarding how the project is progressing, or if you have any insights you think are relevant. Also, keep an eye out for our team as we present KETmaritime across Europe and beyond to the maritime sector, and never hesitate to say hi and stop for a chat over coffee breaks.

*Rory, Eimear, and the KETmaritime Team.*



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## Overview

KETmaritime stakeholders were consulted on a number of aspects regarding the maritime sector, and the opportunities and challenges provided by Key Enabling Technologies.

Three group consultation exercises were held:

- Opportunities
- Challenges and solutions for KET and maritime collaboration
- Fueling and facilitating our KET endeavours

Group consultations were implemented using participatory Group Facilitation Methods developed by the staff of the Institute of Cultural Affairs (ICA) and more commonly known as Technology of Participation (ToP)<sup>®</sup>. The University College Cork staff deployed on this exercise have been trained in this methodology through the UCC Staff Training programme. Further information on ToP<sup>®</sup> can be found at [www.ica-usa.org/](http://www.ica-usa.org/).

The data recorded were collated, and stakeholder needs, observations, and recommendations were extracted. The data collation step ensured that User Board comment records were anonymised, ensuring stakeholder confidentiality.

The project partners would also like to take this opportunity to thank the contributing users consulted for their input, enthusiasm, and constructive criticism on the project, the system concept presented, and our overall project strategy.

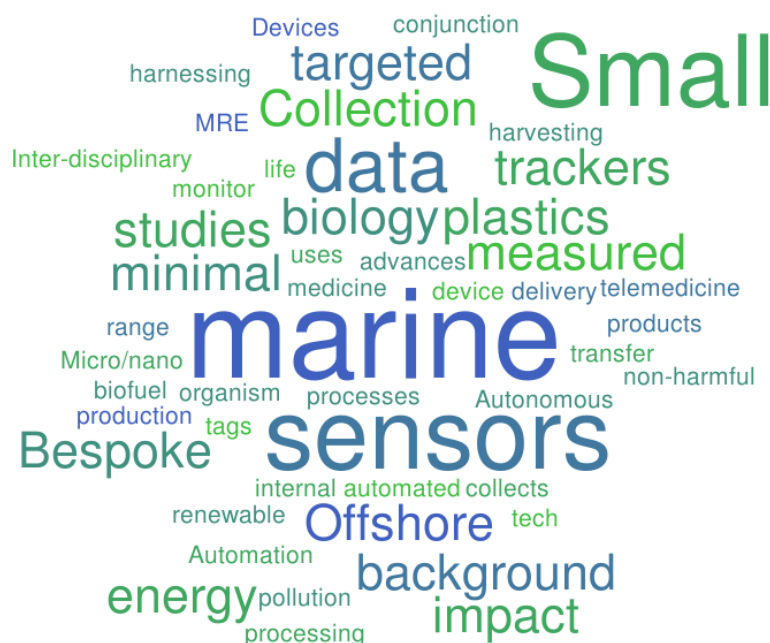
## Participants:

Attendees	Project Team
15 stakeholders	Rory Scarrott (UCC)
	Eimear Tuohy (UCC)
	Amy Dozier (UCC)
	Kathrin Kopke (UCC)
	Cathal O' Mahony (UCC)
	Jeremy Gault (UCC)

## Facilitated by:

Rory Scarrott (UCC) , Eimear Tuohy (UCC), Kathrin Kopke (UCC), Amy Dozier (UCC), and Cathal O' Mahony (UCC).

## Meeting Outputs in brief.



*Opportunities for KETs in the maritime sector noted by participants in the Cork workshop*

The conversations between the KETmaritime team and the stakeholders yielded a wealth of observations on various aspects of the technology transfer ecosystem between the Ket Enabling Technology sectors and the maritime sector. Participants voiced their perspectives on the opportunities they could see following a briefing on KET technologies, and proceeded to identify the barriers to uptake, and explore these barriers. These have provided the context to frame the roadmap, and the recommendations contained within.

Participants also explored potential solutions to overcome these barriers. Actionable solutions were sought, then distilled into a set of core recommendations for the KET maritime roadmap. These recommendations are listed on the following pages. These will be enhanced with inputs from the KETmaritime Gijón and Paris workshops.

Stakeholder involvement in the process of refining the roadmap was also broached, with agreement on the next steps outlined at the end of this document.



### *Impediments and their relevance to aspects of KET-maritime innovation*

*“KET advances are difficult to transfer across broad communities”*

*Cork Workshop Participant 2019*

Recommended Actions	Relevance				
	Policy	Funding	Communications frameworks	Information flows	Next-gen innovators
Ensure supports are available for Innovators, scientists and technology developers to trial KET technology transfers	✓				
Create an environment to commercialise viable KET-maritime innovations, by ensuring innovative applications development is within areas of maritime needs, framed by, and iterating with, maritime stakeholders (for example by securing engagement with maritime company associations to gather information on specific maritime issues KETs could help address), to identify maritime industry problems.			✓	✓	
Conduct targeted informative outreach activities, to raise awareness of KETs, at: <ul style="list-style-type: none"> <li>➤ global maritime events;</li> <li>➤ trade conferences in marine monitoring, offshore energy, and wind energy;</li> <li>➤ maritime trade shows.</li> </ul>				✓	
Conduct activities which include: <ul style="list-style-type: none"> <li>➤ Holding outreach booths at conferences and trade shows;</li> <li>➤ Implementing 1-day workshops at conferences, and within companies, which feature intermediaries (translators) to translate maritime needs to the KET community, and KET opportunities to the maritime community.</li> </ul>				✓	
Support outreach activities with: <ul style="list-style-type: none"> <li>➤ Visual outreach materials summarising KET-enabled products;</li> <li>➤ Information, and stories about successfully KET maritime application products (demonstrations);</li> <li>➤ Information regarding cost savings and financial opportunities, and alignment with environmental sustainability.</li> </ul>			✓		
Create an environment to commercialise viable KET-maritime innovations by engaging with policy makers to shape the KET-maritime innovation environment, ensuring development is in line with the principals of environmental sustainability.	✓				

Recommended Actions	Relevance				
	Policy	Funding	Communications frameworks	Information flows	Next-gen innovators
Create an environment to commercialise viable KET-maritime innovations, by clarifying the supports available to facilitate innovators pathways to manufacturing	✓	✓			
Create an environment to commercialise viable KET-maritime innovations by ensuring Intellectual property creation, assessment, transparency and security are embedded at the core of the KET-maritime innovation environment, with adequate supports in place for innovators and collaborators.	✓				
Create an environment to commercialise viable KET-maritime innovations, by creating a framework for monitoring successes and challenges innovators are facing, with measurable (monitorable) indicators of impact.	✓				
Create an environment to commercialise viable KET-maritime innovations by funding (strategically): <ul style="list-style-type: none"> <li>➤ with a longer term perspective (with longer-term, 5+ year, funding and development streams);</li> <li>➤ to establish a foundation of secure, core-funding for more risk-enabling, innovative, and fundamental KET-maritime applications research;</li> <li>➤ business development of demonstrative innovative KET-maritime examples (e.g. with incubation support).</li> </ul>		✓			
Create an environment to commercialise viable KET-maritime innovations, by mapping, building upon, amending and supplementing existing frameworks and structures which foster trans-disciplinary innovation development, with amendments to specifically target KET-maritime innovation development	✓	✓			
Create an environment to commercialise viable KET-maritime innovations, by ensuring innovative applications development is demonstrably within areas of maritime needs, framed by, and iterating with, maritime stakeholders (for example by securing engagement with maritime company associations to gather information on specific maritime issues KETs could help address), to identify maritime industry problems.		✓		✓	

Recommended Actions	Relevance				
	Policy	Funding	Communications frameworks	Information flows	Next-gen innovators
Create an environment to commercialise viable KET-maritime innovations, by ensuring innovative applications development is demonstrably within areas of maritime needs, framed by, and iterating with, maritime stakeholders (for example by securing engagement with maritime company associations to gather information on specific maritime issues KETs could help address), to identify maritime industry problems.		✓		✓	
Create an environment to commercialise viable KET-maritime innovations, by ensuring diverse trans-disciplinary networking opportunities are available, which include a core set of intermediaries (translators) who can bridge the gaps between the KET and maritime communities collaborators.			✓		
Capitalise on existing education assets by creating placement programmes where students/early-stage scientists/engineers from the maritime or KET sectors can be placed in the opposing sector					✓

### Commitments to the Cork Workshop Participants

1. *Extract a number of stakeholder recommendations from the workshop data.*
2. *Compile and deliver a detailed workshop report, detailing the recommendations gained from stakeholders, and mapping the path forward.*
3. *Ensure the workshop participants are kept aware of the roadmap in development, and are offered the opportunity to review and access it before it is made public.*
4. *Ensure the contributions of stakeholders are appropriately acknowledge in the issuing of the KETmaritime roadmap.*



## Annex A: Agenda



**KETmaritime**  
This project has received funding  
from the Interreg Atlantic Area programme



### KETmaritime | Enriching maritime R&D through Key Enabling Technologies

Thursday 26th September 2019, 9am – 5:30pm

**Location:** MaREI, Centre for Marine and Renewable Energy Ireland, Ringaskiddy, Cork

**Thursday 26th September 2019**

Time	Title/Theme	Presenter
09:30 – 10:00	Arrival & Coffee	
10:00 – 10:15	Welcome Address	Jeremy Gault (UCC-MaREI)
<b>Theme: Cross sectoral innovations</b>		
10:15 – 10:45	KETmaritime – Transfer of KETs to the maritime sector	Cathal O' Mahony (UCC-MaREI)
10:45 – 11:00	KETs as growth enablers in the Maritime sector	Rory Scarrott (UCC-MaREI)
11:00 – 11:15	<b>Q &amp; A re. KETs</b>	
<b>11:15 – 11:30 Coffee</b>		
11:30 – 12:00	Realities with Tech transfer into the marine – SmartBay or NMCI	Paul Shanahan (Halpin)
12:00 – 12:30	KET example for aquaculture	Jamie Downes (MI)
12:30 – 13:00	<b>Round Table Discussion – Opportunities</b>	
<b>13:00 – 14:00 Lunch</b>		
<b>Theme: Key Enabling Technologies Today</b>		
14:00 – 14:30	Smart Marine Sensors& Monitoring	Brendan Flynn (Tyndall Institute)
14:30 – 15:00	OceanRINGS+: Making Complex Subsea Tasks Simple Using Smart Controls	Edin Omerdic (MMRRC)
15:00 – 15:30	<b>Round Table Discussion – Challenges and solutions for KET and maritime collaboration?</b>	
<b>15:30 – 16:00 Coffee</b>		
<b>Theme: Driving innovation</b>		
16:00 – 16:30	Developing a transnational pilot manufacturing ecosystem for biomedical devices based on Key Enabling Technologies (Atlantic-ketmed.eu )	Dr. Gerard O'Connor (NUIG)
16:30 – 17:00	The Collaborative Road forward	Dr. Lawrence Dooley (UCC)
17:00 – 17:30	<b>Round Table Discussion – Fuelling and facilitating our KET maritime endeavours</b>	
17:30	End of Day comments	



## **Annex B: Facilitation questions:**

### **Discussion 1: Opportunities**

Please contact the event organisers for the more detailed discussion guides.

### **Discussion 2: Challenges and solutions for KET and maritime collaboration?**

Please contact the event organisers for the more detailed discussion guides.

### **Discussion 3: Fuelling and facilitating our KET maritime endeavours**

Please contact the event organisers for the more detailed discussion guides.

## Annex B: Document Details

<b>Project:</b>	KETmaritime Platform		
<b>Title:</b>	Workshop report: KETmaritime   Enriching maritime R&D through Key Enabling Technologies		
<b>Author(s):</b>	Rory Scarrott		
<b>Approved by:</b>	KETmaritime Partners	<b>Authorized by</b>	
<b>Distribution:</b>	INTERNAL: KETmaritime partners, Interreg Atlantic Area, Workshop participants		
<b>Filename</b>	KETmaritime_CorkWorkshopReport_V1.0		

## Changes Log

Version	Date	Changes
0.1	25/10/2019	Template drafted
0.2	28/10/2019	Base content added
0.9	17/12/2019	Analysis results integrated, draft distributed to partners
1.0	02/01/2020	Document finalised and delivered

[Document end]